Haier SERVICE MANUAL

Front Load Washing Machine

MODEL: HW60-1203D

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death

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Chapter 1 General Information

1-1. General Guidelines

When servicing,observe the original lead dress.If a short circuit is found, replace all parts which are overheated or damaged by the short circuit.After servicing ,see to it that all the protective devices such as insulation barriers ,insulation papers shields are properly installed .Confirm that the screws,parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the service places serviced or not. And be sure safety of that.

Chapter 2 Product Feature

2-1. Features

(1). 320mm diameter porthole, door may be open at a 175 degrees.

Facilitate view of wash process, facilitate unloading and easy to use with large port.

(2). Class A energy-saving

Scientific design for tub can reduce the use of water heavy during washing, consequently upgrade the energy efficiency class to A,also use scientific washing

(3). Multi-gear speed controller

According to different costuming，you can select corresponding spin speed，from 0 to 1200 rpm

(4). Unique gasket design featuring no residual water hidden inside.

By the unique gasket，washing machine can left no residual water hidden between outer drum and front board.

(5). Delay time adjustive.

According to different costuming，you can select delay time，from 0.5h to 24h.

2-2. Specification

	washing machines		HW60-1203D
1.	**Product identification**		
	Description of appliance		Washing machine
	Type of appliance(FS = standing, BI = built-in)		FS
	Supplier own brand		
	Supplier bar code（Europe）	**EAN**	**haier**
	Commercial Brand / Model		
	Commercial bar code	EAN	
2.	**Key-Features**		
	Energy efficiency class		**A**
	Washing performance class		**A**
	Spin efficiency class		**C/B**
	Programs	**n°**	**11**
	Capacity	**kg**	**6**
	Spin speed ***(max.)***	**rpm**	**1200**
	Noise level（sound pressure level）	dB(A)	72
	Energy consumption per wash circle	kWh	1.14
	Water consumption per wash cycle	l	56
	Annual average energy consumption *	kWh	182
	Annual average water consumption*	l	8483
	Residual dampness *(spin result)*	%	62%/53%
	Adjustable thermostat (*water temp. adjust* from - to)	°C	90 -※
	Drum capacity dry laundry / water	kg / l	6/45
	Auto water level adjust *(depending on volume of filled in laundry)*	*AWL*	l
	Washing time (max.)	min	196
	Washing temperatures *(program-controlled)*	°C	30/40/ 60 /90
	Certification's (**CE**)		CE
	Approvals (VDE/GS / TÜV/GS / IMQ)		CE/GS
	* per average 200 wash cycles *(EN50242) T= COLD*		
3.	**Basics data**		
	Unit dimensions (H x W x D)	mm	850*595* 520
	Net weight	kg	65
	Voltage/frequency	V/Hz	220V-240V~/50Hz
	Input power / main fuse (intensity)	W / A	2000/10
	Work top / removable		l/l
	Control **M** = electromechanical, **E** = electronic, **F** = fuzzy		E
	Drum **S** = stainless steel / **Z** = zinc coated		S
	Tub **P** = Polyprop./ **S** = stainless steel		P
	Door:		
	aesthetic (**R** = round, **Y** = big eye, **Q** = square)		R
	Diameter	cm	32
	Outer door frame **S**= stainless steel / **M** = metal / **P** = plastic		P
	Inner door **G**= glass / **P**= plastic		G
	Detergent compartments	n°	3
	Removable compartment for liquid detergent		-
	Delay timer *(from - to)*	h	0.5-24
	Self cleaning suds pump		-
	Water inlet hose cold water / hot water		●/-
	Water drain hose / -support		●/●
	Adjustable feet	n°	4
4.	**Safety systems**		

	Auto door lock	*ADL*	●
	Motor overheating protection	*MOP*	●
	No heating without water	*NHW*	●
	Auto water cool-down *(before drain 90°C boiled water)*	*AWC*	●
	Water overflow protection	*WRP*	●
	Acqua Stop kit		-
	Child protection		●
5.	**Programs**		
	1) cotton cycles (90°C/60°C/40°C/30°C/※)	n°	-/●
	2) synthetics (60°C/40°C/30°C/※)	n°	●/●
	3) wool (40°C/30°C/※)	n°	●/●
	4) Delicates (40°C/30°C/※)	n°	●
	5) quick (30°C/※，15min)	n°	●
	6) Sport(40°C/30°C/※)	n°	●
	7) Mix(60°C/40°C/30°C/※)	n°	●
	8) Special programs	n°	**2**
	Single Rinse	n°	●
	Single Spin	n°	●
	Optional function keys (additional program settings)		
	ON/OFF		●
	Start / Pause		●
	Delay		●
	Extra Rinse		●
	Intense		●
	Eco Time		-
	Spin Select		●
	Temperature Select		●
	Baby Care		-
	Cold wash		-
	Super Wash		-
	Pre-wash		-
	Easy ironing		-
	Packing dimensions & loadability		
	Packing dimensions (H x W x D)	mm	890*650*565
6.	Gross weight	kg	67
	40' Container load	pcs	189
	Logistic / recicling information		
	Packing weight	kg	2
7.	**Packing materials / Recycling symbols**		
	Carton (weight)	gr	Shrink package
	Polistyren (weight)	gr	1500
	Polyetylene foil (weight)	gr	200
	Other packing materials (weight)	gr	
	Wood (weight)	kg	**300**
	Service	**RS**	
	User instruction (languages)		
8.	Max. failure rate (12 Months after sales to end customer)	%	
	Delivery Time of First Batch		**Available**
9.			

Chapter 3 Matters needing attention

3-1. Safety

BEFORE SWITCHING THE APPLIANCE ON FOR THE FIRST TIME

DO ...
... Make sure that the transportation bolt(T1,T2&T3) are removed.
... Use a separate earthed socket for the power supply.
... Make sure that the plug is accessible.
... Hold the plug and not the electric cable when unplugging the power supply.
... Make sure that the fuses in the power circuit are rated for 13A.
... Keep away from heat sources and direct sun light to prevent plastic and rubber components from aging.
... Make sure that the power cord is not caught under or in the appliance and avoid damage to the power cable.
... Check that hose joints and connections are firm and no water can leak. If joints are loose or there is leakage, turn off the water supply and refix. Do not use the washing machine until the hoses are properly fixed.

DO NOT ...
☐ ... Touch or use the appliance when barefoot or with wet or damp hands or feet.
☐ ... Use flammable detergent or dry cleaning agent.
☐ ... Use any flammable sprays in close vicinity to the appliance.
☐ ... Remove or insert the plug in the presence of flammable gas.
☐ ... Allow children or infirm persons to play with the appliance or packing materials.
☐ ... Install the appliance outdoors in a damp place, or in an area which may be prone to water leaks such as under or near a sink unit. In the event of a water leak allow the machine to dry naturally.
☐ ... Place the washing machine directly on a carpet, or close to a wall or furniture.

DURING DAILY USE OF THE APPLIANCE

DO ...

... Pull up zips and fix loose threads to prevent the items from being entangled. If necessary, put small items into a net bag or pillow.

... Turn off the machine after each wash program and switch it off at the mains to save electricity and for safety. Wipe clean the lower part of the porthole.

... Keep the door slightly open when the washing machine is not in use to prevent formation of odours.

... Let the power cord be replaced by the manufacturer, his service agent or other accordingly qualified persons, in case it is damaged.

... Ensure that the appliance is not used by persons(including children) with reduced physical, sensory or mental capabilities, lack of experience and knowledge without supervision or instruction by a person responsible for their safety.

... Supervise children to ensure that they do not play with the appliance.

DO NOT ...

☐ ... Touch the washer door during the washing process - it gets hot!

☐ ... Place heavy objects or sources of heat or damp on top of the appliance.

☐ ... Hot wash foam rubber or sponge-like materials.

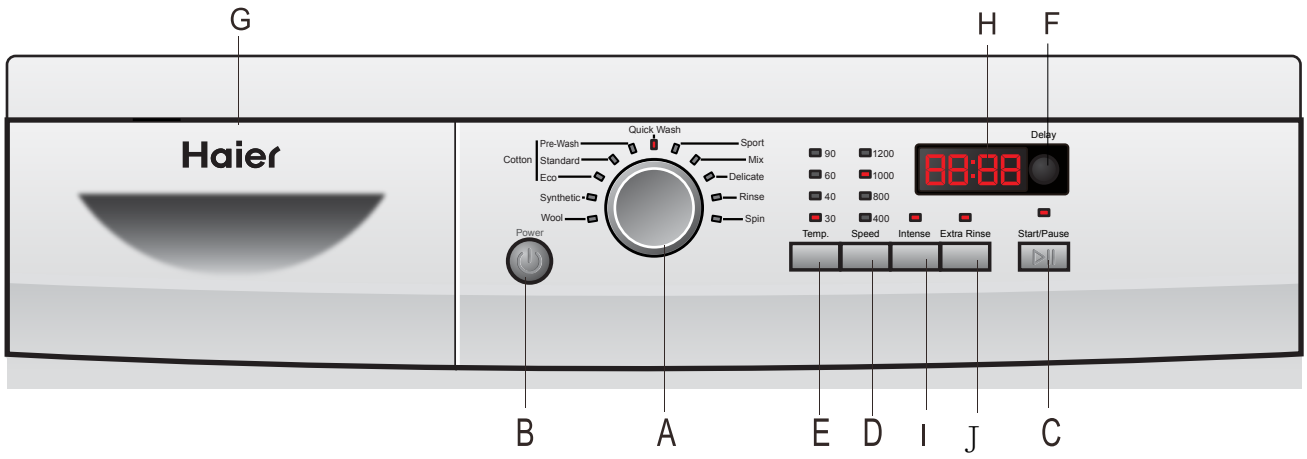
☐ ... Open the detergent distribution drawer during the wash cycle.

☐ ... Force the washer door open. The door is fitted with a self-lock device and will open shortly after the washing procedure is ended.

☐ ... Open the washer door if the water level is visibly over the porthole.

☐ ... Cover the washing machine with plastic cover so that inside dampness cannot be kept in.

Chapter 4 Operational Guidance



A Program knob **B** Power Switch **C** Start/Pause button

D Spinning Speed Setting button **E** Washing temperature button **F** Delay Button

G Detergent distribution drawer **H** Display **I** Intense button **J** Extra rinse button

A ¬Program knob — By turning the knob clockwise/ countercl ockwise, the required program can be selected. There are 11 programs available.After aprogram is selected, the corresponding light will go on.

B ¬Power Switch — Press this button to switch on the washing machine.Press it again to switch it off.

C ¬Start/Pause Button — When the washing machine is connected to the power socket and a program is selected, lightly touch this button to start operation. During a wash cycle, touch it lightly ,operation will stop and the digits on the screen start blinking. Touch it again to resume operation.To cancel a wash program during a wash cycle, touch this button, when the digits on the screen start blinking, press the Power switch, the program will be cancelled.

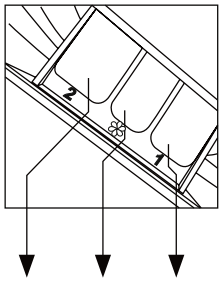
D ¬Spining Speed Setting Button — _ Touch this button lightly to select the desired speed. When a speed is set, it will be displayed on the indicator.

Note: Different water temperatures and spinning speeds can be set for different laundries. Wash using the default settings if there is no special requirement.

E ¬Washing temperature button — _Touch this button lightly, t he washing temperature will be displayed on the indicator. Select a tem perature according to the type of laundry.

F	¬ Delay Button	_Touch this button lightly, the washing machine will start operation after a period of time and the corresponding indicator will go on. The range is 0.5-24 hours; each touch of this button increases a half hour. After the button is set, press the Start/Pause button to start countdown of the set time (the time is displayed on the screen until the program ends). Note:The delay time must be longer than the program time;otherwise,the washing machine will start the wash program directly.
G	¬ Detergent distribution drawer	_Open the drawer, three compartments can be seen: Compartment 1: Prewash detergent Compartment 2: Detergent for programs 1 to 10. Compartment 3: Softener, conditioning agent, perfume, etc.
H	¬ Display	_Information as remaining wash time and error messages will be shown here. Note: After power is switched on, the display will go on and the remaining wash time decreases. As the water pressure and temperature may differ, the remaining time maybe adjusted accordingly. When the laundry is not balanced during spinning, the time may be automatically prolonged. These are normal phenomena.
I	¬ Intense button	_If the laundry is heavily soiled, press this button before starting the program. When the button is pressed, the washing time increases.
J	¬ Extra rinse button	_Press this button, the washing machine will perform additional rinses. Press the button once to select one additional rinse. The display will show"P-1". Press the button repeatedly and the screen will display "P-2"or "P-3", indicating two or three additional selected rinses. The "extra rinse light" is activated and flashes during the performance. "P-1/2/3" is displayed alternating with the remaining time. The light turns off and the display disappears when the extra rinse ends.

Chapter 5 Program Introduction



1 Detergent compartment for prewash mode
2 Detergent compartment
3 Compartment for softener and other additives

Program	Temperature Maximum	Temperature Preset	2	3	1	Recommended Laundry	Preset spin speed HW60-1203D
1 ¬ Wool	-- to 40 °C	30°C	☑	☐	☒	Woolen fabrics	400 rpm
2 ¬ Synthetic	-- to 60 °C	40°C	☑	☐	☒	Fast colour synthetic	1000 rpm
3 ¬ Eco	-- to 90 °C	40°C	☑	☐	☒	Cotton fabrics	1000 rpm
4 ¬ Standard	-- to 90 °C	40°C	☑	☐	☒	Cotton fabrics	1000 rpm
5 ¬ Pre-Wash	-- to 90 °C	40°C	☑	☐	☑	Heavy soiling	1000 rpm
6 ¬Quick Wash	-- to 30 °C	30°C	☑	☐	☒	Slight-soil cotton, linen and synthetic fabrics	800rpm
7 ¬ Sport	-- to 40 °C	30°C	☑	☐	☒	Sports wear	1000 rpm
8 ¬ Mix	-- to 60 °C	40°C	☑	☐	☒	Different materials	1000 rpm
9 ¬ Delicate	-- to 40 °C	30°C	☑	☐	☒	Cotton or synthetic	1000 rpm
10 ¬ Rinse	--	--	☒	☐	☒	/	1200rpm
11 ¬ Spin	--	--	☒	☒	☒	/	1200rpm

☑ Yes ☒ No ☐ Optional

Chapter 6 Washing Mathods

6-1. Loading

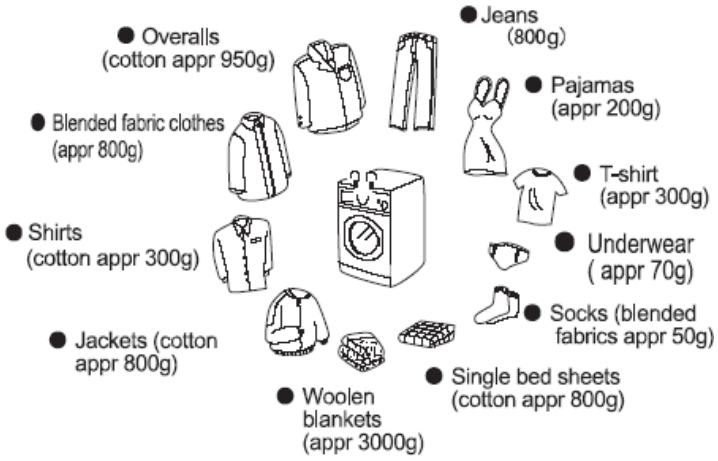
Open the door,put in the laundry piece by piece and then tightly close the door.

Notes:

1) When first using the washing machine, let it run unloaded for one program to prevent the laundry from being tainted by oil or dirty water from the washing machine.

2) Do not overload the washing machine.

Load Reference


Jeans (800g)
Overalls (cotton appr 950g)
Pajamas (appr 200g)
Blended fabric clothes (appr 800g)
T-shirt (appr 300g)
Shirts (cotton appr 300g)
Underwear (appr 70g)
Socks (blended fabrics appr 50g)
Jackets (cotton appr 800g)
Single bed sheets (cotton appr 800g)
Woolen blankets (appr 3000g)

6-2. Adding detergent

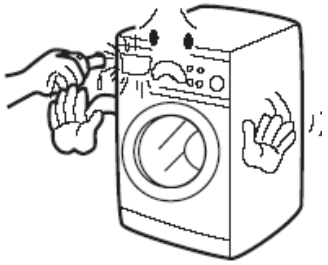
Slide out the detergent drawer and put the required detergent and softening agent into the corresponding boxes. Push back the drawer gently.

Caution:

1)Do not add liquid detergent to compartment 1and 2.

2) For prewashing program, detergent should be added to both compartments 1 and 2. For other programs, do not add detergent to compartment 1.

3) Do not overuse softener; otherwise, it will damage the artificial fibers.

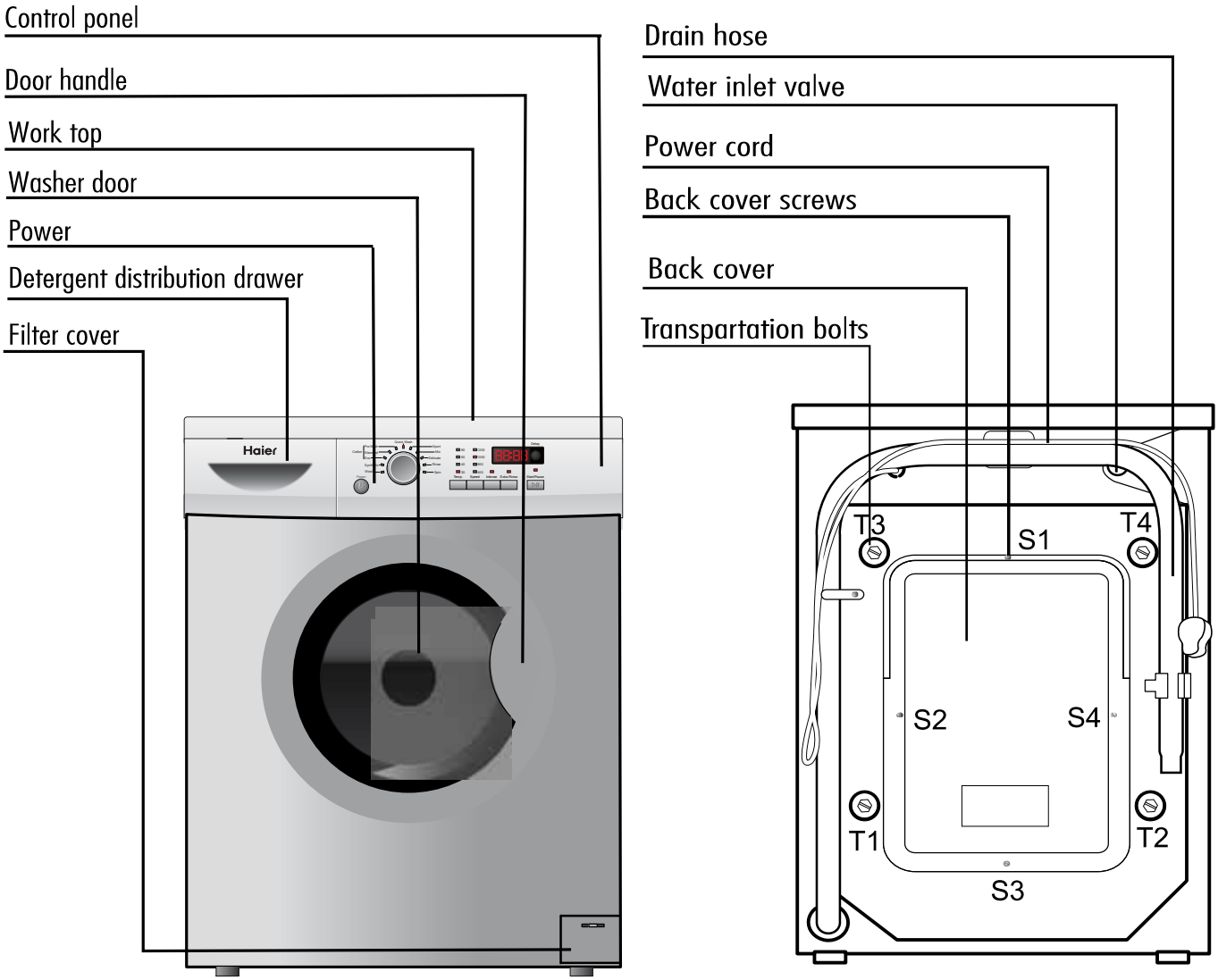


6-3. Selecting washing program

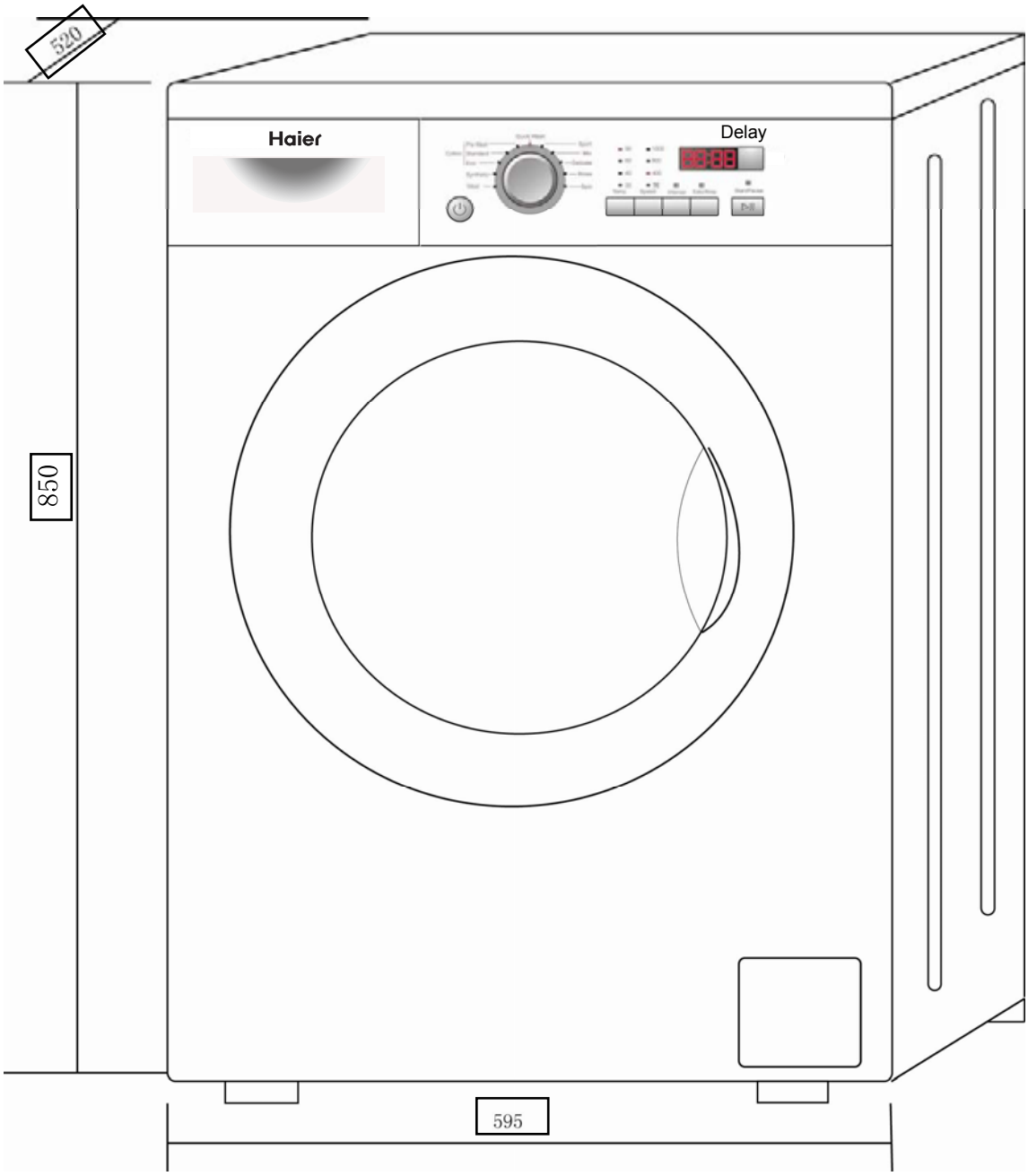
To get the best washing effect, an appropriate washing program should be selected according to the laundry type.

Chapter 7 Appearance brief introduction

7-1. Name of parts



7-2. Net dimension

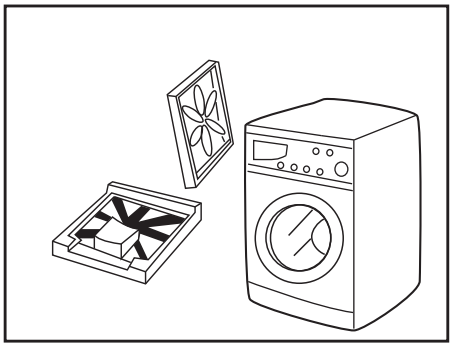


height:850mm / width:595mm / depth:520mm

Chapter 8 Disassembly and Installation

8-1. Remove packing materials

Remove all the packing materials (including the EPE base)to prevent vibration during use, as shown in the right picture.Upon opening of the package, water drops may be seen on the plastic bag and the porthole. This is normal phenomenon resulting from water test in the factory.



8-2. Dismantle packing bolts

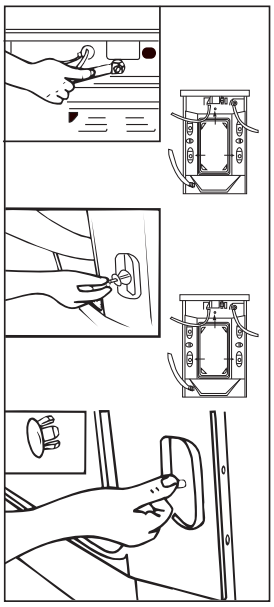
Dismantle the packing bolts as shown in Fig. 2.

The packing bolts are designed for clamping anti-vibration components inside of the washing machine during the transportation process.

Before use:

1. Remove the back plate;
2. Remove the three packing bolts on the back plate and take out the rubber hose;
3. Replace the back plate;
4. Fill the holes left by the packing bolts with plastic plugs.

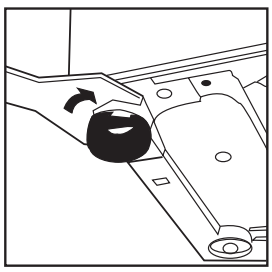
(Attention: The packing bolts and rubber hose should be kept in a safe place for later use)



8-3. Adjusting the washing machine

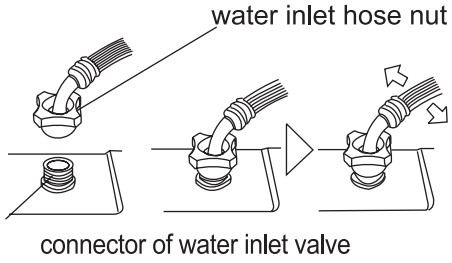
Adjusting the washing machine

There are adjustable feet under the bottom of the washing machine. Before use, the washing machine should be adjusted, as shown in Fig. 3, so that it is level.



8-4. Joining the Inlet Hose to the Washing Machine

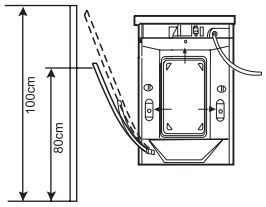
1. Place the water inlet hose nut on the connector of the water inlet valve.



2. slightly shake the water inlet hose nut to see if it is tightly and properly fixed.

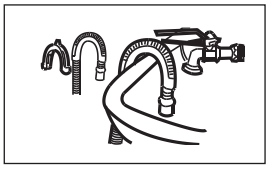
8-5. Drainage Hose

● The height of the terminal of the water drainage hose should be between 80cm-100cm, the water drainage hose must be securely placed on the clip on the back of the washing machine.



● Use the water drainage support supplied as an accessory for proper installation of the water drainage hose.Fix the water drainage hose support with waterproof string. Do not use an excessively long water drainage hose and contract the authorized technician if the water drainage hose needs to be extended.The water drainage hose should not be extended more than250cm.(longer extension will result in concurrent water inflow and outflow).The diameter of the extension hose should be the same as the original hose.

caution:water drainage hose must not be immersed in water.the original and extension hoses should be tightly connected.



● The appliance is to be connected to the water mains using new hose-sets and that old hose-sets should not be reused.

8-6. Connecting to the Power Supply

Check the following items before connection to the power supply.

● The socket conforms to the maximum power load (The maximum current oad of the socket and power supply cable should not be less than 15A).

● power supply voltage conforms to the required value.

● The power supply socket and the plug of the washing machine should be compatible. if they are not compatible, Refer to a washing machine technician or a Haier designated service point for power cable replacement. The washing machine should be connected to the earth before use.

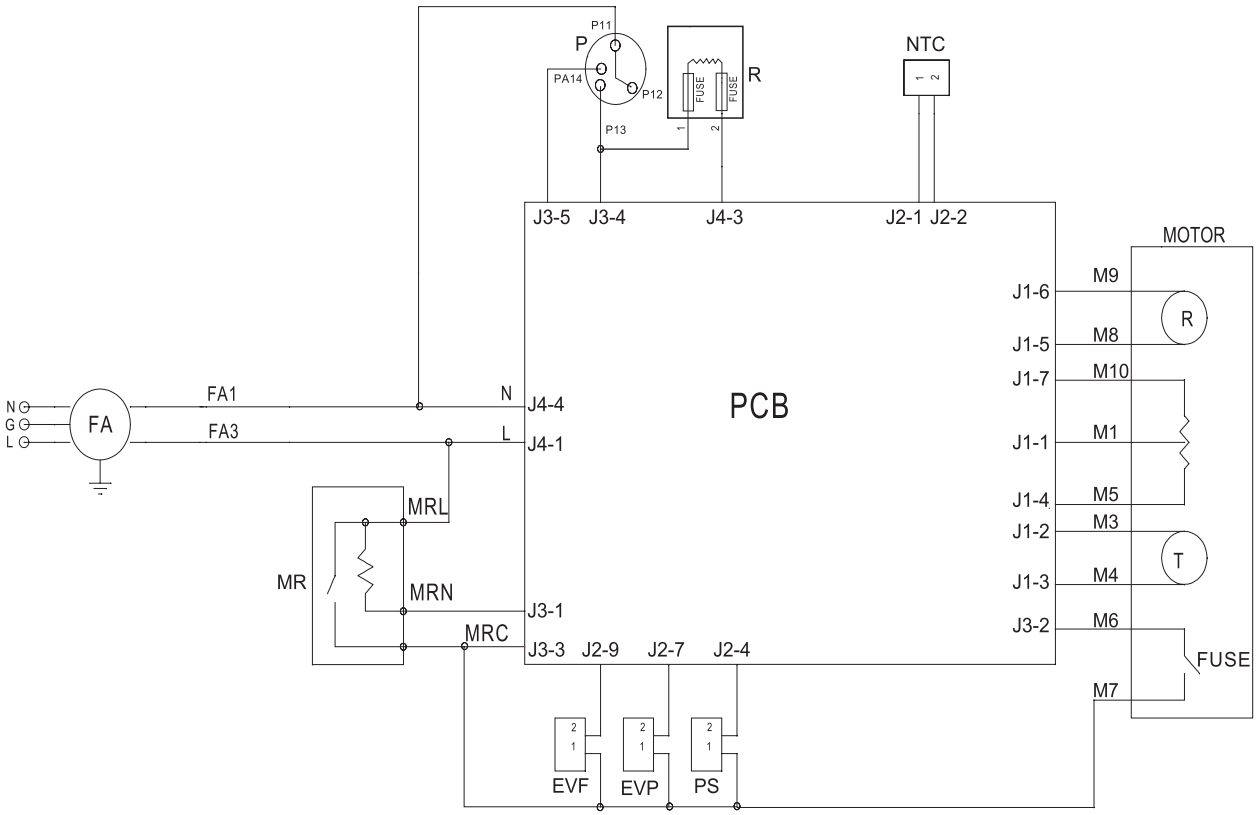
● Supplementary earth cable should not be necessary if the socket is connected to the earth.

● Supplementary earth cable should be installed on the upper back of he washing machine and connected to an earth if the power supply socket has no earth connection.

Caution: the supplementary earth cable should not be connected to water or heating pipes

Chapter 9 Wiring circuit and Self check

9-1. Wiring circuit



Motor———Motor
PCB———Printed Circuit Board
MR———Door Lock
R———Heating Element
PS———Drainage Pump
EVF,EVP——Water Inlet Magnetic Valve
P———Pressure Switch
FA———Interference Suppresser
NTC———Temperature Sensor

9-2. Self check

Self check

1.How to start

Press the “speed” and “intense” button at the same time, then put the plug in to the socket, wait for about 3 seconds, the LED will display “TEST” and the model of the machine ,then you can press “start/pause” to let washing machine start test function.

2. Test item

1) when the door switch is closed for three seconds, 88:88 will be displayed.

2) when the main wash valve allows water to let in for 3 seconds, 77:77 will be displayed.

3) when the prewash valve allows water to let in for 3 seconds, 77:77 will be displayed.

4) when the softy water valve allows water to let in for 3 seconds, 77:77 will be displayed.

5) when the main wash valve, the prewash valve and also the softy water valve allow water to let in for 3 seconds at the same time, 77:77 will be displayed.

6) Heater runs for ten seconds, 66:66 will be displayed.

7) the drain pump runs for about 1 mins, 55:55 will be displayed

8) the motor runs for 10 seconds with the spin speed 400rpm, then for ten seconds with the spin speed 1000rpm, 44:44 will be displayed

Model selection

1.Press the extra rinse button and then put the plug in to the socket at the same time for 4 seconds, and it will enter the model-selection mode.

2.The default display shows 1060. Press the speed button to choose 1060/1050/0960/0950/0860/0850/0760/0750/0660/0650/1460/1450/1260/1250 till the needed model.Then press the temperature key and the model can be stored. The model can not be changed after storage.

3.If you want to change the model again after storage, you can cut off the NTC and do the cycle adjustment.

4.Model HW60-1203D you should choose 1260 ;

5. Press On/Off button gently for 2 seconds to switch off the machine as buttons are soft touch sensitive.

Chapter 10 Error Display and troubleshooting

10-1. Error Display

Error message:Door is not properly shut 20s after program is started.

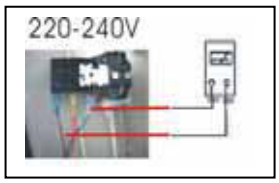
Troubleshooting:

Pushing the door to Check Whether Door is properly shut or not

N → Shut the door properly

Y

Cut off the power and then turn on again. Check the voltage between brown wire and blue wire of door lock, is it between AC 220-240V?



Y → Door lock is broken and need replacing, then make sure wire is connected properly.

N

Check if the wire connecting door lock and PCB is loose

Y → Connect the wire properly

N

Check the voltage between 12-3 and 12-12 of PCB, is it between AC 220-240V?

N → Replace PCB

Error message: Drainage error, water not emptied within 4 min.

Troubleshooting:

Check if water is emptied

Y → Cut off power and water level pressure switch wire connection, measure the resistance of 11 and14 pin, is it infinite? If not, it is water level pressure switch failure and replaces it. If it is, then repair and check PCB and wire as followed.

N

Check if drain pump acts by touching pump position

Y → Check if drain pump or drain pipe is jammed, And open the filter and clean

N

Cut off the power and choose spin program to start ,then check the import voltage of drain pump, is it between AC 220-240 V?

Y → Replace drain pump

N

Cut off power and pull out water level pressure switch wire connection. Set spin program to start. Check the export voltage to drain pump, is it between AC 220-240V?

Y → The wire between PCB and drain pump is not connected properly. Replace the wire.

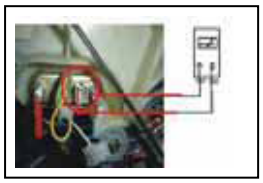
N

Replace PCB

Error message:Temperature sensor is not properly connected or damaged (displ ay at the end of a program)

Troubleshooting:

Cut off power and measure the resistance of temperature sensor by multimeter, is it between 5-14kΩ ?



N → NTC exist open circuit. Replace it

Y

Check if NTC is connected properly

N → Connect NTC well

Y

Check the white wire and black wire of NTC, are they connected well?

N → Connect all wires well

Y

Disconnect the white wire and black wire from PCB, and measure if the resistance between white wire and black wire of PCB, is it infinite?

Y → Replace wire

N

Replace PCB

Error message:The heater may be broken

Troubleshooting:

Check if overload laundry.

Y → Reduce the laundry

N

Cut off power, check the resistance of two pins of heater element by multimeter, is it between 32-35Ω?

N → Heater elem ent must be broken, please replace it

Y

The control wire may be broken, Otherwise the PCB must be broken; Please replace the broken.

Error message: The required water level is not reached within 8 min,

Troubleshooting:

Check if water is leaking from washer bottom. Inlet pipe. drain pipe or other pipe connection

Y → Connect it well.

N

Check if tap is closed or water pressure is too low (μsual between0.2 -1 MPa)

Y → Open the tap or wait for normal water pressure to use

N

Check if inlet valve is jammed

Y → Clean inlet valve

N

Draw out the dispenser and check if water is entering

Y → Observe if the height of drain pipe not reach 80 cm. If water level pressure switch and the hose is leaking gas

N

Turn on power, and set pre-wash mode, then start. Check the import voltage of electromagnetic valve by multimeter is it between AC 220-240V?

Y → Electromagnetic valve must be broken, please replace it.

N

Check if export voltage from PCB to electromagnetic valve, is it between AC 220-240V?

Y → The wire connected PCB and inlet valve is not properly. Please reconnect it or replace it.

N

Replace PCB

Error message. Motor overheat protection or is damaged.

Troubleshooting:

Cut off power and check if motor wires are connected well

Y

N → Reconnect well

Measure if the resistance of motor binding by multimeter, is it as followed?

5 -10[0.755±7%Ω/1.76±7% (at 20° C)] ;

8 -9[1.56±7%Ω /1.64±7% (at 20° C)] ;

N → Put the motor in normal temperature about ten minutes, and then test again. If the resistance is natural, it is caused by overheated protection. Then check and deal with overload, abnormal voltage. If not, please replace motor

Y

Pull out the wire connection of motor and driving computer board. Then check if circuit is open by multimeter

Y → Repair wires

Error message. Water level exceeds protection value.

Troubleshooting:

Check if water switch hose and air collector are jammed

Y → Clean water switch hose and air collector

N

Pull out water switch inserts and turn on power, then set wash mode. while water is entering at the position of 3/4 glass window, check the resistance between 11 and 16, is it 0 ? Check the resistance between 11and 14 ,is it infinite?

Y → Replace water pressure switch

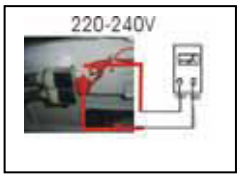
N

Without power ,connect inlet pipe to inlet valve, then open the tap and observe if water is entering in dispenser

Y → Replace inlet valve

N

Without starting but electrifying, measure the import voltage of inlet valve, is it between AC 220-240V?



Y → Replace PCB

10-2. Examination & Troubleshooting

10-2-1. Display nothing

Troubleshooting:

Measure the power supply ,is it exists 220V-240V AC voltage?
N → Repair power supply
Y

Is power switch on?

N → Press the power switch
Y

Press power switch and check the voltage between two pins of power switch. Is there 220-240V AC voltage?
N → Make sure power supply cable assembly is connected well and then replace power switch.
Y

Cut off power and check if plugs are connected well by pulling the plug of PCB.

N → Insert the plug well and test
Y

Check if power plug exists 220V-240V AC voltage at the import pin
N → Replace PCB

10-2-2. No water inletting

Troubleshooting:

Is the tap shut off or the water pressure too low?

Y → Open tap or wait for normal water pressure
N

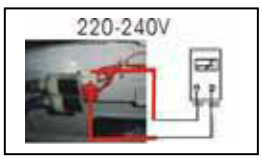
Check if water is leaking from washer connection, especially between inlet pipe and tap. to make sure of no bends.

Y → Reconnect inlet pipe.
N

Check if filter of electromagnetic valve is jammed

Y → Clean filter
N

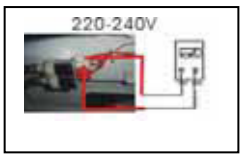
Choose pre-wash program and start, Check if there is 220-240V at import pin of electromagnetic valve



Y → Replace electromagnetic valve
N

Is there open circuit between electromagnetic valve and PCB?
Y → Reconnect the wire
N

Choose pre-wash program and start, then check if there is 220-240V at export pin of electromagnetic valve



N → Replace PCB

10-2-3. No draining

Troubleshooting:

Is the height of drain pipe too high?
Y → Adjust the height of drainpipe to 80-100 cm
N

Turn filter anticlockwise， open and check if filter is jammed

Y → Clean and tighten filter clockwise.
N

Check if hose-connecting cylinder to pump is bent or jammed

Y → Arrange hose and clean
N

Turn on power and choose spin program to start. Measure if import voltage of drain pump is 220-240V
Y → Replace drain pump
N

Cut off and check if the connection between drain pump and PCB is open
Y → Replace the wire .
N

Turn on and select spin program to start, Measure export voltage of PCB to the drain pump, is it 220-240V?
N → Replace PCB

10-2-4. Abnormal noise and vibration

Troubleshooting:

Is the pack screws dismantled?
N → Dismantle the screws
Y

Is there foreign material in the washer ?
Y → Clean
N

Is washer in balance?
N → Adjust adjustable feet
Y

Is belt loose or worn?

Y → Replace it
N

Remove belt and turn belt pulley by hand, and then check if there is different noise
Y → Dismantle triangle and check the bearing. If it is broken, replace it.
N

Turn on power and set spin program, then start，check if there is different noise from motor

Y → Replace motor

10-2-5. Water leaking

Troubleshooting:

Check if water is leaking from the inlet pipe or the tap

N

Is drain pipe broken?

N

Check if there is foreign material nipped between cushion of sight window and sight window

N

Check if all tubes and tie-in is leaking water, including the connecting of tube and valve, dispenser, tube and dispenser, outer cylinder-cushion of sight window-hose and outer cylinder, drain pump and gas valve

N

Is cushion of sight window broken?

N

Is water leaking from outer cylinder?

Y → Readjust it

Y → Replace drainpipe

Y → Remove clothes

Y → Reassemble or repair

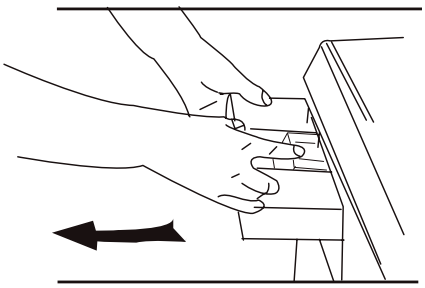
Y → Replace outer cylinder

Chapter 11 Maintenance

1. Turn off the water tap and pull out electricity plug after each wash. Open the porthole to prevent formation of moisture and odors. If the washing machine is left idle for a long period, drain the water in the machine and replace the drainage hose.

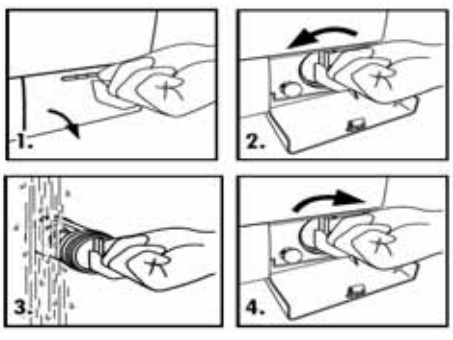
2. Unplug the machine during cleaning and maintenance. Use a soft cloth dampened with soap liquid to clean the machine case and rubber components. Do not use organic chemicals or corrosive solvents.

3. Clean the detergent distribution drawer regularly. Swing out the drawer,flush it clean with water and then replace it.

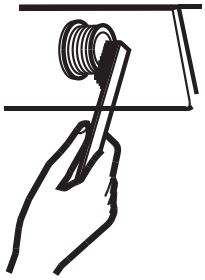


4. Clean the filter Cleaning methods (once a month)
   1) Push out the outer cover (Fig. 1);
   2) Screw out filter by turning counterclockwise (Fig. 2);
   3) Flash clean with running water;
   4) Replace the filter by turning clockwise and remount the cover (Fig. 3).

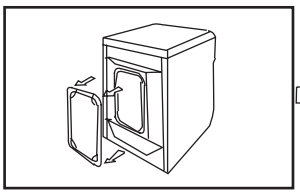
   Caution: Turn the filter clockwise until it is in the place after the drain pump is cleaned.
   The filter must be in place, or it may lead to leakage.



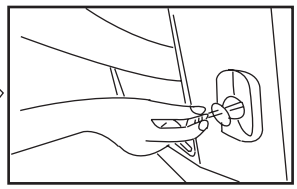
5. To prevent block- ages to the water supply or the ingress of contaminants, clean the water inlet and inlet water filter regularly.



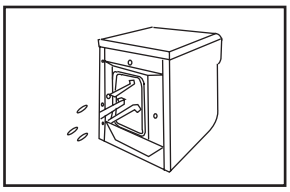
6. If the machine is to be moved a distance location, replace the vibration mounting locks which were removed during installation as snown below.



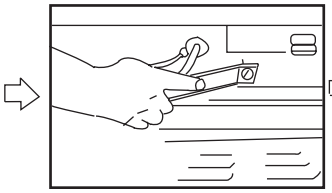
Remove the back cover.



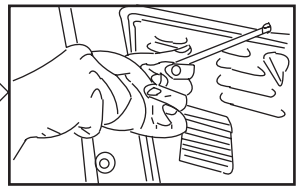
Remove the rubber plugs.



Insert the bolts.

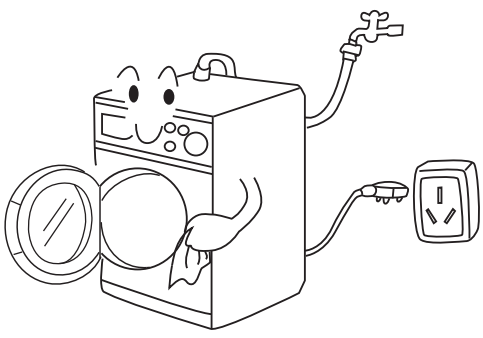


Tighten the bolts with the spanner.



Replace the rear panel.

7. After each wash program, turn off the tap to prevent leakage; and unplug the washing machine and wipe clean the lower part of the porthole.



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